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October 11, 2005

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WRITER'S DIRECT NUMBER:

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Art Unit 2687

Attn: Mail Stop Amendment

Re:

U.S. Utility Patent Application

Appl. No. 10/086,367; Filed: March 4, 2002

For: Method and System for Frequency Up-Conversion

Inventors:

SORRELLS et al.

Our Ref:

1744.0020007

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Third Supplemental Information Disclosure Statement;
- 2. A listing of the cited documents on Form PTO-1449 (2 pages);
- 3. Copies of the cited documents (AM23 and AR59); and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skqf.com

Commissioner for Patents October 11, 2005 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

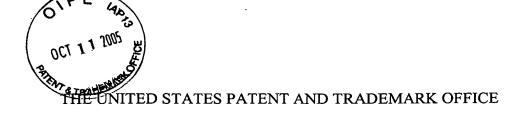
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver Attorney for Applicants Registration No. 45,608

MQL/JSW:apg Enclosures

452647_1.DOC



In re application of:

SORRELLS et al.

Appl. No.: 10/086,367

Filed: March 4, 2002

For: Method and System for Frequency

Up-Conversion

Confirmation No.: 3679

Art Unit: 2687

Examiner: Bhattacharya, Sam

Atty. Docket: 1744.0020007

Third Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Third Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Second Supplemental Information Disclosure Statement filed on July 26, 2005 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Document AM23 was cited in an Office Action in related German Patent Application No. 19983659.0-35, filed October 20, 1999, entitled "Method and System for Frequency Up-Conversion," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,557,641, which as already been cited in the present application.

Document AR59 is an English-language abstract of document AM23.

Documents AA68-AC68 were cited in an Office Action in related U.S. Patent Application No. 10/318,207, filed December 13, 2002, entitled "Method And Apparatus For Reducing Re-Radiation Using Techniques Of Universal Frequency Translation Technology," directed to related subject matter.

Documents AD68-AG68 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/855,851, filed May 16, 2001, entitled "Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals," directed to related subject matter.

Documents AH68, AI68, and AA69 were cited in an Office Action in related U.S. Patent Application No. 10/315,174, filed December 10, 2002, entitled "Reducing DC Offsets Using Spectral Spreading," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,999,561 and 6,686,879, which have already been cited in the present application.

Documents AB69-AD69 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/359,636, filed February 7, 2003, entitled "Integrated Frequency

Translation and Selectivity," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,126,682; 5,926,054; 6,049,706; 6,421,534; and 6,560,301, which have already been cited in the present application.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below:

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this
 Information Disclosure Statement was cited in a communication from a foreign
 patent office in a counterpart application and this communication was not received
 by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to
 the filing of this information disclosure statement.
- ∑ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing of a first Office Action on the merits. No statement or fee is required.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement

was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form in the amount of ____ in payment of the fee under 37 C.F.R. § 1.17(p).
- 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to

the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance.

 1138 OG 37, 38.
- AM23 appears below in accordance with 37 C.F.R. § 1.98(a)(3):

Document AM23 (DE 69221098T2) appears to describe a radio frequency multiplier comprising an automatic level control circuit. An English-language abstract of document AM23 is enclosed as document AR59. It is also noted that document AM23 is a counterpart of European Patent Publication EP 0 548 542 A1, which has already been cited in the present application.

M /·	Copies of documents AM23 and AR39 are enclosed. However, in accordance with
	37 C.F.R. § 1.98(a)(2), copies of the U.S. patents cited on the attached Form PTO-
	1449 are not enclosed.
□ 8.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C. § 120

Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

☑ 9. It is expected that the examiner will review the prosecution and cited art in the parent application nos. 09/379,497, filed August 23, 1999 (now U.S. Pat. No. 6,353,735), and 09/176,154, filed October 21, 1998 (now U.S. Pat. No. 6,091,940), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution histories has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver Attorney for Applicants Registration No. 45,608

Date:

10-11-05

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600 451581_1.DOC

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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Page 1 of 2 ATTY. DOCKET NO. 1744.0020007 APPLICATION NO. 10/086,367

FIRST NAMED INVENTOR

David F. SORRELLS

FILING DATE ART UNIT

					All ING DATE ART UNIT					
-			U.S. PA		DOCUMENTS		,			
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	N	AME	CLASS	SUB-CLASS	FILING DATE		
-	AA68	5,014,130	05/1991	н	eister <i>et al</i> .					
	AB68	5,390,215	02/1995	А	nita <i>et al.</i>					
	AC68	5,805,460	09/1998	G	reene <i>et al.</i>					
	AD68	6,882,194 B2	04/2005	В	elot <i>et al</i> .					
	AE68	6,892,062 B2	05/2005	L	ee et al.					
	AF68	6,917,796 B2	07/2005	s	etty et al.					
	AG68	6,920,311 B2	07/2005	R	ofougaran <i>et al.</i>					
	AH68	5,062,122	10/1991	Р	ham et al.					
	Al68	6,182,011 B1	01/2001	V	Vard					
			FOREIGN	PATE	NT DOCUMENTS	•				
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
_	AJ							Yes No		
	AK							Yes No		
-	AL							Yes No		
	AM23	DE 692 21 098 T2	01/199	18	DE			No		
		OTHER DOCUMENTS	S (Includir	ng Aut	hor, Title, Date, Pert	inent Pages,	etc.)			
EXAMINER INITIAL	DOC. REF.	CITATION								
	AN									
	AO									
	AP									
	AQ									
	AR59	English Abstract for Ge	rman Pater	it No. D	E 692 21 098 T2, 1 pag	e, data supplied	from the esp	acenet.		
EXAMINER						DATE CC	NSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

OCT 1 1 2005 FORM PTO-1449 TRADEN

Page 2 of 2 APPLICATION NO. 10/086,367 ATTY. DOCKET NO. 1744.0020007 FIRST NAMED INVENTOR

	THIR	O SUPPLEMENTAL		David F. SORRELLS				
INFORMATION DISCLOSURE STATEMENT				FILING DATE March 4, 2002	ART 1	ART UNIT 2687		
 _		••	U.S. PATI	ENT DOCUMENTS	2001			
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA69	6,639,939 B1	10/2003	Naden et al.				
	AB69	5,787,125	07/1998	Mittel				
	AC69	5,878,088	03/1999	Knutson et al.				
	AD69	6,215,828	04/2001	Signell et al.				
	AE						-	
	AF							
	AG							
	АН							
	AI							
			FOREIGN P	ATENT DOCUMENTS	•			
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AJ						Yes No	
	AK			~			Yes No	
-	AL						Yes No	
	AM						Yes No	
		OTHER DOCUMENTS	S (Including	Author, Title, Date, Pe	ertinent Pages,	etc.)		
EXAMINER INITIAL	DOC. REF.			CITATION				
	AN							
	AO							
	AP							
	AQ							
	AR							
EXAMINER		1			DATE CC	NSIDERED		

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